

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

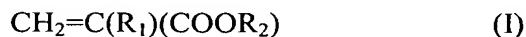
1. (Currently Amended) A transparent acrylate pressure-sensitive adhesive comprising a filler, ~~characterized in that~~ **wherein** the acrylate pressure-sensitive adhesive comprises a polyacrylate and particles of silicate and/or of silica gel, the particles of silicate and/or of silica gel having a size of not more than 50 nm.

2. (Currently Amended) The acrylate pressure-sensitive adhesive of claim 1, ~~characterized in that~~ **wherein** the particles of silicate and/or of silica gel have a size of not more than 10 to 30 nm.

3. (Currently Amended) The acrylate pressure-sensitive adhesive of ~~one of~~ ~~claims 1 and 2, characterized in that~~ **claim 1, wherein** the particles of silicate and/or of silica gel are present with a weight fraction of 0.5 to 25 relative to ~~the~~ unfilled silicate/silica gel.

4. (Currently Amended) The acrylate pressure-sensitive adhesive of ~~one of~~ ~~claims 1 to 3, characterized in that~~ **claim 1, wherein** the polyacrylate is ~~obtainable~~ **obtained** from a comonomer composition comprising:

- a) acrylic acid and methacrylic acid derivatives of the ~~general~~ formula (I), with a fraction of 70 to 100 percent by weight,



where $\text{R}_1 = \text{H}$ or CH_3 and $\text{R}_2 = \text{H}$ or an alkyl chain having 2 to 20 carbon atoms, ~~such as butyl, pentyl, hexyl, heptyl, octyl, isooctyl, 2-methylheptyl, 2-ethylhexyl, nonyl, decyl, dodecyl, lauryl or~~ stearyl (meth)acrylate or (meth)acrylic acid, and

- b) vinyl compounds comprising functional groups, with a fraction of 0 to 35 percent by weight.

5. (Currently Amended) The acrylate pressure-sensitive adhesive of ~~one of~~ ~~claims 1 to 4, characterized in that~~ claim 4, wherein the vinyl compound is a maleic anhydride, a styrene, a styrene compound, a vinyl acetate, a (meth)acrylamide, an N-substituted (meth)acrylamide, a β -acryloyloxypropionic acid, a vinyl acetic acid, a fumaric acid, a crotonic acid, an aconitic acid, a dimethylacrylic acid, a trichloroacrylic acid, an itaconic acid, a hydroxyalkyl (meth)acrylate, an amino-containing (meth)acrylate, a hydroxyl-containing (meth)acrylate, a 2-hydroxyethyl (meth)acrylate, a 2-hydroxypropyl (meth)acrylate, and/or a 4-hydroxybutyl (meth)acrylate.

6. (Currently Amended) The acrylate pressure-sensitive adhesive of ~~one of~~
~~claims 1 to 5, characterized in that~~ **claim 4, wherein** the vinyl compound is a double-
bond-functionalized photoinitiator.

7. (Currently Amended) The acrylate pressure-sensitive adhesive of ~~one of~~
~~claims 1 to 6, characterized in that~~ **claim 1, wherein** the particles of silicate and/or of
silica gel have been functionalized with a free-radical initiator.

8. (Currently Amended) The acrylate pressure-sensitive adhesive of ~~one of~~
~~claims 1 to 7, characterized in that~~ **claim 1, wherein** the particles of silicate and/or of
silica gel have been coated with a polyacrylate coat.

9. (Currently Amended) The acrylate pressure-sensitive adhesive of ~~one of~~
~~claims 1 to 8, characterized in that~~ **claim 8, wherein** the polyacrylate of the pressure-
sensitive adhesive and of the particle coating are substantially identical.

10. (Currently Amended) A process for preparing an acrylate pressure-
sensitive adhesive of ~~one of the preceding claims, characterized in that~~ **claim 1, said**
process comprising polymerizing the acrylates and comonomers ~~are polymerized~~ in the
presence of at least one organic solvent or in bulk, the particles of silicate and/or of silica
gel being mixed in.

11. (Currently Amended) The process of claim 10, ~~characterized in that the~~
wherein particles of silicate and/or of silica gel having a maximum size of 50 nm, ~~in~~
~~particular from 10 to 30 nm,~~ are mixed in.

12. (Currently Amended) The process of ~~one of claims 10 and 11,~~
~~characterized in that~~ claim 10, wherein the particles of silicate and/or of silica gel are
mixed in with a weight fraction of 0.5 to 25 relative to ~~the~~ unfilled silicate/silica gel.

13. (Currently Amended) The process of ~~one of claims 10 to 12, characterized~~
~~in that~~ claim 10, wherein the particles of silicate and/or of silica gel are functionalized
with a free-radical initiator in an upstream operation.

14. (Currently Amended) The process of ~~one of claims 10 and 13,~~
~~characterized in that~~ claim 10, wherein the particles of silicate and/or of silica gel are
mixed in during or after the polymerization.

15. (Currently Amended) The process of ~~one of claims 10 to 14, characterized~~
~~in that~~ claim 10, wherein the particles of silicate and/or of silica gel are coated with a
polymer, the polyacrylate of the acrylate pressure-sensitive adhesive and of the particle
coating being substantially identical.

16. (Currently Amended) The process of ~~one of claims 10 to 15, characterized in that~~ **claim 10, which further comprises crosslinking** the acrylate pressure-sensitive adhesive ~~is crosslinked~~ by UV irradiation in the range from 200 to 400 nm.

17. (Currently Amended) The process of ~~one of claims 10 to 16, characterized in that~~ **claim 16, wherein** the acrylate pressure-sensitive adhesive is crosslinked by ionizing radiation or by thermal crosslinking.

18. (Canceled)

19. (New) A pressure-sensitive adhesive tape comprising the acrylate pressure-sensitive adhesive of claim 1.

20. (New) A bonding method comprising applying a pressure-sensitive adhesive tape of claim 19 to a substrate.